Human B7-1/CD80 Protein

Cat. No. B71-HM480



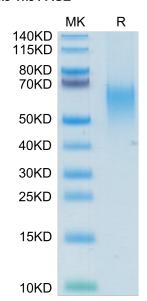
Cat. No. Dr 1-1 INI-100	
Description	
Source	Recombinant Human B7-1/CD80 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Val35-Asn242.
Accession	P33681-1
Molecular Weight	The protein has a predicted MW of 26.8 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	Cluster of differentiation 80 (also CD80 and B7-1) is a protein found on dendritic cells, activated B cells and

different proteins on the T cell surface: CD28 and CTLA-4.

monocytes that provides a costimulatory signal necessary for T cell activation and survival. It is the ligand for two

Assay Data

Bis-Tris PAGE

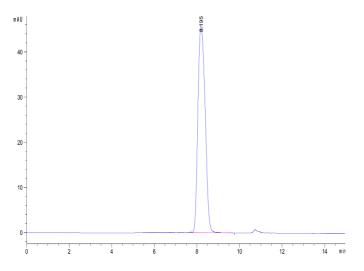


Human B7-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

Assay Data

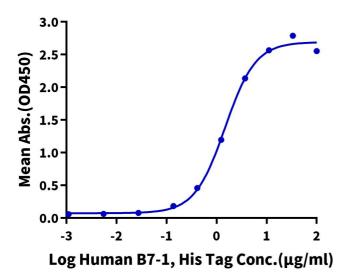


The purity of Human B7-1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

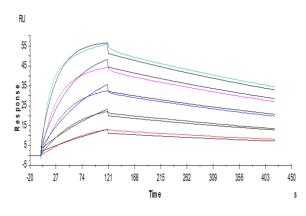
Human B7-1, His Tag ELISA

0.1μg Human CTLA-4, hFc Tag Per Well



Immobilized Human CTLA-4, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human B7-1, His Tag with the EC50 of 1.48µg/ml determined by ELISA (QC Test).

SPR Data



Human B7-1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human CTLA4, hFc Tag with an affinity constant of 1.1nM as determined in SPR assay (Biacore T200).